QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT	COUNTRY	CALL	OR VISIT US ONLINE AT
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EIRE	0818 717100	www.samsung.com/ie/support	BELARUS	810-800-500-55-500	www.samsung.com/support
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Samsung Electronics (UK) Ltd, Euro QA Lab.
Blackbushe Business Park. Saxony Way, Yateley, Hampshire. GU46 6GG United Kingdom

This product is RoHS compliant

Floor Standing Unit

AM✳✳✳FNFDEH✳
AM✳✳✳FBFDEH✳

Air Conditioner
user manual

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Thank you for purchasing this Samsung product.

EN ES FR IT PT DE EL NL PL HU RU DB68-03677A-05

SAMSUNG

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features of your new air conditioner

- **Cool Summer Offer**

  On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. This summer, beat the heat with your own air conditioner.

- **Cost Efficient System**

  Your new air conditioner not only provides maximum cooling power in the summer, but can also be an efficient heating method in the winter with the advanced “Heat pump” system. This technology is up to 300% more efficient than electrical heating, so you can further reduce its running cost. Now, meet year-round needs with one air conditioner.

- **Flexible installation**

  Duct type air conditioner is designed to be slimmer and offers different solutions for any shape room allowing for specific air flow requirements. Also, the air intake can be set up on either the bottom or rear of the unit, so there is more flexibility in installation.

SAMSUNG

For easy future reference write the model and serial number down. You will find your model number on the right side of the air conditioner.

Model #_____
Serial #_____

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safety information

To prevent electric shock, disconnect the power before servicing, cleaning, and installing the air conditioner.

SAFETY INFORMATION

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death.**
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage.**
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your air conditioner, follow these basic safety precautions:

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions carefully.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the contact center for help.
	Note.

These warning signs are here to prevent injury to you and others.

Please follow them carefully.

After reading this section, keep it in a safe place for future reference.

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safety information

WARNING SEVERE WARNING SIGNS

Do not place the air conditioner near hazardous substances or equipment that releases free flames to avoid fire, explosions or injuries.

- Potential risk of fire hazard or explosion.

Do not install the outdoor unit at an unstable place or elevated surface where there is potential risk of falling.

- If the outdoor unit falls, it may cause personal injury or loss of property.

Failure or damage may occur if any changes or modification that is not stated in the installation manual was performed. In this case, user will be responsible for the repair expenses.

Install the air conditioner away from direct exposure to sunlight, heating apparatus, and humid places.

- Hang curtains on windows to boost cooling efficiency and to avoid the risk of electric shock.

Do not cut the power plug and connect to a different power cable.

Do not yank the power cable and touch the power plug with hands.

- Potential risk of fire or electric shock.

Never use a damaged or dusted power plug, power cable, or loosened power receptacle.

- Potential risk of fire or electric shock.

Install an exclusive circuit breaker and short-circuit breaker for the air conditioner.

- Potential risk of electric shock or fire.

Do not insert anything such as fingers or branches into the air conditioner vents while the air conditioner is running.

- Keep the children away from the air conditioner to prevent them from putting their finger on the air conditioner. Potential risk of personal injury.

Ensure no water gets into the air conditioner.

- Potential risk or electric shock.
- If the water gets into the air conditioner, stop and unplug the power source immediately.

Turn off the air conditioner using the provided remote control or control accessory (if provided). Do not unplug to turn off the unit (unless there is an immediate danger).

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Do not run the air conditioner for an extended period of time in a room with the door closed or with babies, elderly or disabled people.

- Open the door or windows to ventilate your room at least once an hour to prevent oxygen shortage.

The air conditioner is composed of moving parts. Keep children away from the unit to avoid physical injury.

Make sure that children take precautions against access to the air conditioner and they do not play with the unit.

Do not clean the interior of air conditioner on your own.

- You may damage the parts which can cause electric shock or fire.
- Consult contact center for cleaning the interior of the air conditioner.

Do not connect the air conditioner with heating apparatus or attempt to disassemble, remodel or repair it yourself.

- Potential risk of malfunction, electric shock or fire. If repairs are needed, consult the contact center.

Consult the place of purchase or contact center to install, reinstall or disassemble the air conditioner.

- Improper installation carries a risk of unit malfunction, water leakage, electric shock or fire.
- If installing in specialty areas, such as a factory complex or saline coastal area, consult the place of purchase or contact center for specific installation details.
- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

Consult a dealer regarding the appropriate measures to prevent the allowable concentration from being exceeded.

- If the refrigerant leaks, and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.

If the indoor unit gets wet, turn the power off immediately and call your nearest contact center.

- Potential risk of fire or electric shock.

Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.

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WARNING SEVERE WARNING SIGNS (CONT'D)

Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.

Use a rated circuit breaker only.

- Never use steel wires or copper wires as a circuit breaker. It may cause fire or unit malfunctions.

Do not put undue stress or place heavy object on the power cable.

Do not bend the power cable excessively.

- Potential risk of fire or electric shock.

To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the protection tube.

When opening or closing the front panel, use a stable stool and watch your steps carefully.

Disconnect the air conditioner from power supply before it is repaired or disassembled.

Clean the air conditioner after the inner fan stops operating.

- Potential risk of injury or electric shock.

Use a receptacle that has a ground terminal. The receptacle must be used exclusively for the air conditioner.

- Improper electrical grounding may cause electric shock or fire.

Be sure to ground the unit. Do not connect the ground wire to gas or water pipes, lighting rods, or telephone grounding lines.

- If the unit is not properly grounded, electric shock may result.

If you smell burning plastic, hear strange sounds, or see smoke coming from the unit, unplug the air conditioner immediately and call a contact center.

- Potential risk of fire or electric shock.

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CAUTION SIGNS

Do not block or place items in front of the air conditioner. Do not step, hang onto, or place heavy items on the air conditioner.

- Potential risk of personal injury.

If failure or damage occurs on the conditions of improper use not followed by the installation manual, there will be an extra labor charge for installing and construction.

- Potential risk of malfunction, electric shock or fire if repairs or installations are attempted by a non-qualified service technician.

Do not spray flammable gases such as insecticide near the air conditioner.

- Potential risk of electric shock, fire or unit malfunction.

Do not open the front grille during operation.

- Potential risk of electric shock or unit malfunction.

Cool air should not flow directly towards people, pets, and plants.

- It is harmful to your health, pets, and plants.

Do not drink drain water coming out of the air conditioner.

- Potential risk of health hazard.

Do not allow children to climb on the air conditioner.

Do not use the air conditioner as a cooling precision instrument for food, pets, plants, cosmetics or machinery.

Do not pull or give excessive shock to the air conditioner.

- Potential risk of fire, or unit malfunction and there are risk of personal injury because unit may fall down.

Do not spray water directly on the air conditioner or use benzene, thinner or alcohol to clean the surface of the unit.

- Potential risk of electric shock or fire.
- Potential risk of damage to the air conditioner.

Do not place any objects, especially containers with liquid.

Do not touch the pipe connected to the air conditioner.

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CAUTION SIGNS (CONT'D)

Install the indoor unit away from lighting apparatus using the ballast.

- If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.

Install the outdoor unit where operating noise and vibration will not disturb your neighbor and in a well-ventilated area with no obstacle.

- Potential risk of malfunction.
- Operating noise may disturb your neighbor.

Make sure that there are no obstacles or covers that block the air conditioner.

Allow sufficient space for air circulation.

- Insufficient ventilation may result in poor performance.

If the power cable is damaged, the manufacturer or a qualified service technician must replace it.

If a power outage occurs while the air conditioner is working, turn off the power source immediately.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

Check for damage on delivery. If damaged, do not install the air conditioner and call the place of purchase immediately.

Keep indoor temperatures stable and not extremely cold, especially where there are children, elderly or disabled people.

The packaging material and used batteries of the remote controller (optional) must be disposed of in accordance with the national standards.

The refrigerant used in the air conditioner must be treated as chemical waste. Dispose the refrigerant following national standards.

Have a qualified service technician install the air conditioner and perform a trial operation.

Firmly connect the drain hose to the air conditioner for proper water drainage.

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Check for damages on the outdoor unit installation pad at least once a year.
• Potential risk of personal injury or property loss.

When using a wireless remote control, the distance should not be more than 7 meters from the air conditioner.

If the remote control is not used for a long period of time, remove the batteries to prevent leakage of electrolyte.

When cleaning the outdoor unit, touch the heat exchanger radiator fins with extreme care.
• Wearing thick gloves can protect your hands.

Make sure that the condensed water dripping from the drain hose runs out properly and safely.

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety: Young children should be supervised to ensure that they do not play with the appliance.

For use in Europe : This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Inspect the condition, electric connections, pipes and external case of the air conditioner regularly by a qualified service technician.

Do not open doors and windows in the room being cooled during operation unless necessary.

Do not block the air conditioner vents. If objects block the air flow, it may cause unit malfunction or poor performance.

Make sure there are no obstacles under the indoor unit.
• Potential risk of fire or loss of property.

The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

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CAUTION SIGNS (CONT'D)

Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.

For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Ensure the off-on and protection switches are properly installed.

Do not use the air conditioner if damaged. If problems occur, immediately stop operation and disconnect the plug from the power supply.

If the air conditioner will not be used for an extended period of time (for example, over several months), unplug the power from the wall.

Call the place of purchase or a contact center if repairs are needed.

- Potential risk of fire or electric shock if disassembly or repairs are attempted by a non-qualified service technician.

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INSTALLING YOUR AIR CONDITIONER 21

21 Installation part

ENGLISH

This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), the Electromagnetic Compatibility Directive (2004/108/EC) and the Machinery Directive (2006/42/EC) of the European Union.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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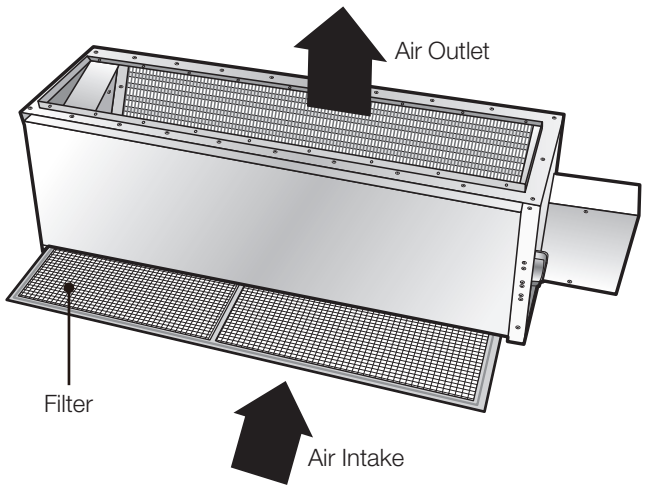
viewing your air conditioner

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.
Please read the user manual to get started and to make the best use of the air conditioner.

FLOOR STANDING UNIT



Your air conditioner may look slightly different from the illustration shown above depending on your model.

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using your air conditioner

TIPS ON USING YOUR AIR CONDITIONER

Here are some tips that you would follow when using your air conditioner.

TOPIC	RECOMMENDATION
Cooling	• If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness. • Avoid drastically turning down the temperature. Energy is wasted and the room does not cool faster.
Heating	• Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperatures are extremely low. If you feel the air conditioner insufficiently heats, using an additional heating appliance in combination with the air conditioner is recommended.
Frost & De-ice	• When the air conditioner runs in Heat mode, due to temperature difference between the unit and the outside air, frost will form. If this happens: - The air conditioner stops heating. - The air conditioner will operate automatically in De-ice mode for 10 minutes. - The steam produced on the outdoor unit in De-ice mode is safe. No intervention is required; after about 10 minutes, the air conditioner operates again normally. The unit will not operate when it starts to de-ice.
Fan	• Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.
High indoor/outdoor temperatures	• If both indoor and outdoor temperatures are high and the air conditioner is running in Heat mode, the outdoor unit's fan and compressor may stop at times. This is normal; wait until the air conditioner turns on again.
Power failure	• If a power failure occurs during the operation of the air conditioner, the operating immediately stops and unit will be off. When power returns, the air conditioner will run automatically.
Protection mechanism	• If the air conditioner has just been turned on after operation stops or being plugged in, cool/warm air does not come out for 3 minutes to protect the compressor of the outdoor unit.

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cleaning and maintaining the air conditioner

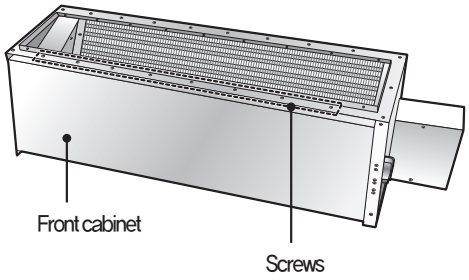
CLEANING THE FILTER

When cleaning the filter, make sure to unplug the power from the unit. No special tools are needed to clean it.

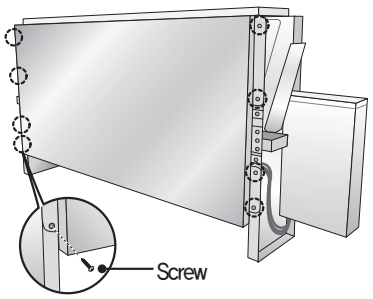
Air filter

Washable air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

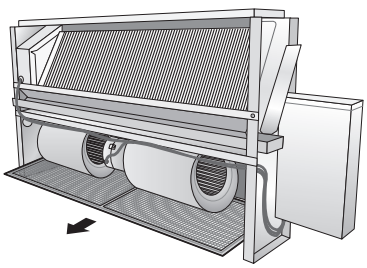
1. Unscrew the screws (8) on the top of the indoor unit.



2. Remove the front cabinet by unscrewing the screws (8) on the left/right side of the front cabinet.



3. Remove the Air filter.



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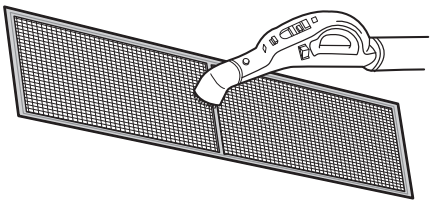
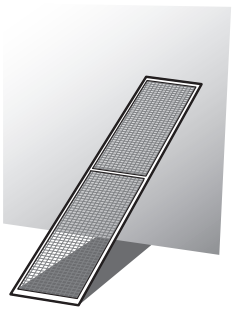
4. Clean the Air filter with a vacuum cleaner or soft brush.

When the dust is too heavy, rinse the Air filter with warm water mixed with neutral detergent. However, if you rub the air filter during washing, air filter may get damaged.



5. Dry the Air filter in shaded area and put it back in the indoor unit.

When you dry the Air filter, avoid direct sunlight. Air filter may get deformed when it is exposed to direct sunlight.



6. Press the **Filter Reset** button on the remote controller.

- Clean the Air filter every 2 weeks or when the filter indicator(▦) lights up on the remote control receiver. However, cleaning period can vary according to the surrounding environment and hours of usage, so the period should be shorter in a dusty environment.
- If you have cleaned the air filter even if the filter indicator (▦) has not turned on, you must press the **Filter Reset** button after cleaning the filter.

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cleaning and maintaining the air conditioner

MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Monthly	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	●		
	Clean the condensate drain pan (2)			●
	Thoroughly clean the heat exchanger (2)			●
	Clean the condensate drain pipe (2)		●	
	Replace the remote control batteries (1)			●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)		●	
	Clean the heat exchanger on the inside of the unit (2)			●
	Clean the electric components with jets of air (2)			●
	Verify that all the electric components are firmly tightened (2)			●
	Clean the fan (2)			●
	Verify that all the fan assembly is firmly tightened (2)			●
	Clean the condensate drain pan (2)			●

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

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Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Against cold air	The internal fan will be off to against cold air when the heat pump is heating.
De-ice cycle	The internal fan will be off to against cold air when the heat pump is heating.
Anti-protection of internal battery	The compressor will be off to protect internal battery when the air conditioner operates in Cool mode.
Protect compressor	The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started.

If the heat pump is operating in Heat mode, De-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.

The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.

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appendix

TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	• Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.
The air conditioner does not work at all.	• Check that the power plug is properly connected. Insert the power plug into the wall socket correctly. • Check if the circuit breaker is switched off. • Check if there is a power failure. • Check your fuse. Make sure it is not blown out.
The temperature does not change.	• Check if you selected Fan mode. Press the **Mode** button on the remote control to select another mode.
The cool (warm) air does not come out of the air conditioner.	• Check if the set temperature is higher (lower) than the current temperature. Press the **Temperature** button on the remote control to change the set temperature. Press the **Temperature** button to decrease or increase the temperature. • Check if the air filter is blocked by dirt. Clean the air filter every two weeks. • Check if the air conditioner has just been turned on. If so, wait 3 minutes. Cool air does not come out to protect the compressor of the outdoor unit. • Check if the air conditioner is installed in a place with a direct exposure to sunlight. Hang curtains on windows to boost cooling efficiency. • Check if the cover or any obstacle is not near the outdoor unit. • Check if the refrigerant pipe is too long. • Check if the air conditioner is only available in Cool mode. • Check if the remote control is only available for cooling model.
The fan speed does not change.	• Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.
Timer function does not set.	• Check if you press the **Power** button on the remote control after you have set the time.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.
The air conditioner makes a bubbling sound.	• A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode. • When you press the **Power** button on the remote control, noise may be heard from the drain pump inside the air conditioner.
Water is dripping from the air flow blades.	• Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.
Remote control is not working.	• Check if your batteries are depleted. • Make sure batteries are correctly installed. • Make sure nothing is blocking your remote control sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
The air conditioner does not turn on or off with the wired remote control.	• Check if you set the wired remote control for group control.
The wired remote control does not operate.	• Check if TEST indicator is displayed on the wired remote control. If so, turn off the unit and switch off the circuit breaker. Call your nearest contact center.
The indicators of the digital display flashes.	• Press the **Power** button on the remote control to turn the unit off and switch the circuit breaker off. Then, switch it on again.

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OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	18℃ to 32℃	-5℃ to 48℃	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
HEATING	27℃ or less	-20℃ to 24℃	-	Internal protection triggers and the air conditioner will stop.
DRYING	18℃ to 32℃	-5℃ to 48℃	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.

The standardized temperature for heating is 7℃. If the outdoor temperature drops to 0℃ or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32℃(indoor temperature), it does not cool at its full capacity.

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appendix

MODEL SPECIFICATION (WEIGHT AND DIMENSION)

Type	Model	Net weight	Net dimension (W×D×H)
Indoor unit	AM036FBFDEH/EU	23.0 kg	945×220×600 mm
	AM056FBFDEH/EU	28.5 kg	1225×220×600 mm
	AM071FBFDEH/EU	28.5 kg	1225×220×600 mm
Indoor unit (NASA)	AM036FNFDEH/EU	23.0 kg	945×220×600 mm
	AM056FNFDEH/EU	28.5 kg	1225×220×600 mm
	AM071FNFDEH/EU	28.5 kg	1225×220×600 mm

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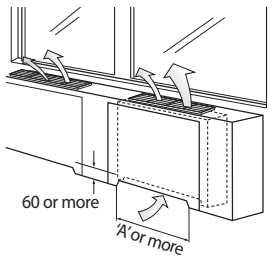
Installation Part

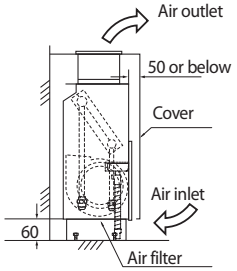
Selecting the Installation Location

Decide the installation location, with the consideration of the following conditions, under user's approval.

- ▶ Place where air flow is not disturbed.
- ▶ Place with flat surface and where structure can bear the weight and vibration of the indoor unit. (If the structure is not strong enough, indoor unit may fall and get damaged or cause personal injury.)
- ▶ Place where sufficient space can be guaranteed for maintenance and other services.
- ▶ Place where condensation can be drained easily.
- ▶ Place that allows refrigerant pipe connection within allowable distance.
- ▶ Place where indoor unit will not be exposed to direct sunlight.
- ▶ Place that can keep the distance of at least 1m between power/communication cable and any electronic devices. (Depending on the circumstances, problem may occur even if you secure 1m of distance.)

(Unit: mm)



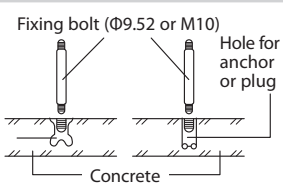


Model	A
✳✳036✳✳	700
✳✳056✳✳	980
✳✳071✳✳	980

Preparing for installation

Refrigerant pipe work must be done before installing the indoor unit.

1. Check the product and the location where it will be installed.
2. Check the required installation conditions.
3. Drill a hole on a floor or a wall and insert bolt anchors as shown in the figure.
   - Use a Φ9.52 or M10 bolts for installation.
   - At least 2 anchor bolts must be used for fixing the indoor unit.



CAUTION

- ***All the part must be purchased separately.***
- ***Service space must be secured.***

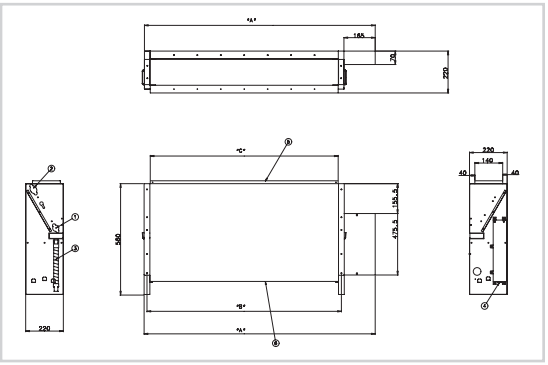
Indoor unit installation

1. Select a location with no obstacles in surrounding area while allowing easy pipe and electrical installation, and also consider a place where it may not fall or get shaken by vibration or any other external force.
2. Drill a hole for the drain on the bottom or rear side of the indoor unit with a diameter between 60~65mm.
3. Make sure that product is in level.
   - Check the horizontality by using a level or a vinyl tube with water etc.

CAUTION

- ***If the indoor unit is not installed in level, drain water may get in to the indoor unit due to incorrect measurement of water level.***

4. Fix the indoor unit by connecting it to the anchor bolt.



Model	"A"	"B"	"C"
✳✳036✳✳	945 mm	730 mm	700 mm
✳✳056/071✳✳	1225 mm	1010 mm	980 mm

No.	Name	Description
①	Liquid pipe connection	✳✳036/056✳✳ : ø6.35 ✳✳071✳✳ : ø9.52
②	Gas pipe connection	✳✳036/056✳✳ : ø12.7 ✳✳071✳✳ : ø15.88
③	Drain pipe connection	ID ø18
④	Power wiring	-
⑤	Air intake	-
⑥	Air outlet	-

Purging the Unit

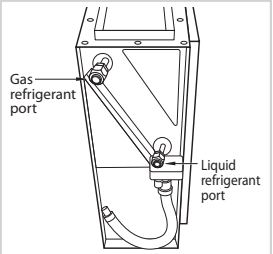
On delivery, the indoor unit is loaded with inert gas. All this gas must therefore be purged before connecting the assembly piping. To purge the inert gas, proceed as follows.

Unscrew the pinch pipe at the end of each refrigerant pipe.

Result: All inert gas escapes from the indoor unit.

Note

To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.



※ The designs and shape are subject to change according to the model.

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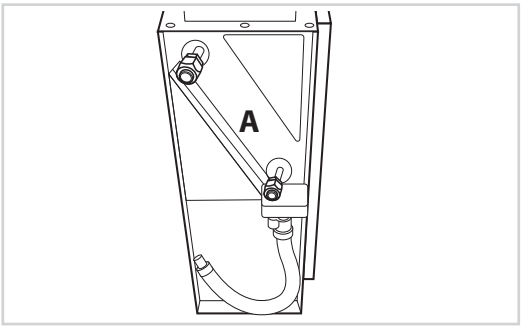
Connecting the Refrigerant Pipe

There are two refrigerant pipes of differing diameters:

- A smaller one for the liquid refrigerant.
- A larger one for the gas refrigerant.
- The inside of copper pipe must be clean & has no dust.

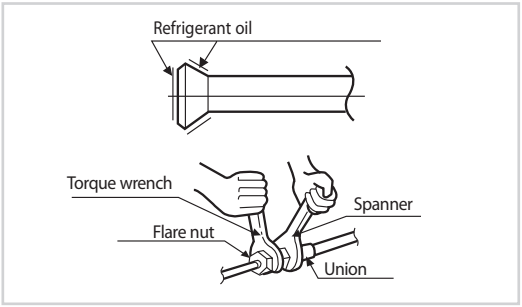
The connection procedure for the refrigerant pipes varies according to the exit position of the pipes from the indoor unit, as seen when facing the indoor in the "A" side.

- Liquid refrigerant port.
- Gas refrigerant port.
- Drain hose port.



※ The designs and shape are subject to change according to the model.

1. Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.



Outer Diameter (mm)	Torque	
	kgf•cm	N•m
6.35	140~180	14~18
9.52	350~430	34~42
12.70	500~620	49~61
15.88	690~830	68~82

Note Must apply refrigerant oil on the flaring area to prevent a leak.

2. Be sure that there must be no crack or kink on the bent area.

Performing Leak Test & Insulation

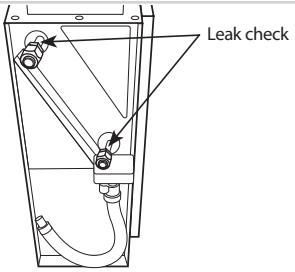
Leak test

LEAK TEST WITH NITROGEN (before opening valves)

In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-410A, it's responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (gauge).

LEAK TEST WITH R-410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R-410A.



CAUTION

- ***Discharge all the nitrogen to create a vacuum and charge the system.***

Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

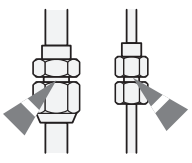
1. To avoid condensation problems, place **T13.0 or thicker Acrylonitrile Butadien Rubber** separately around each refrigerant pipe.

Note Always make the seam of pipes face upwards.

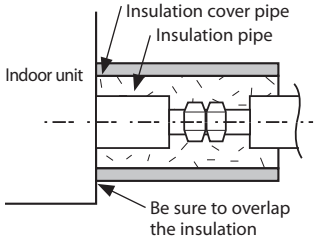
2. Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.

3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

4. The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.



Check for leakage



CAUTION ***Must fit tightly against body without any gap.***

CAUTION

- ***All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.***

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5. Select the insulation of the refrigerant pipe.

- Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- Indoor temperature of 30°C and humidity of 85% is the standard condition.
  If install in a high humidity condition, use one grade thicker insulator by referring to the table below.
  If installing in an unfavorable conditions, use thicker one.
- Insulation's heat-resistance temperature should be more than 120°C.

Pipe	Pipe size	Insulation Type(Heating/Cooling)		Remarks
		Standard [30°C, 85%]	High humidity [30°C, over 85%]	
		EPDM, NBR		
Liquid pipe	ø6.35~ø9.52	9t	9t	Internal temperature is higher than 120°C
	ø12.70~ø50.80	13t	13t	
Gas Pipe	ø6.35	13t	19t	
	ø9.52~ø25.40	19t	25t	
	ø28.58~ø44.45		32t	
	ø50.80	25t	38t	

- When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.

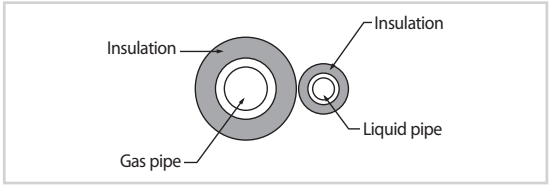
<Geological condition>
- High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand.)

<Operation purpose condition>
- Restaurant ceiling, sauna, swimming pool etc.

<Building construction condition>
- The ceiling frequently exposed to moisture and cooling is not covered.
  e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.
- The place where the pipe is installed is highly humid due to the lack of ventilation system.

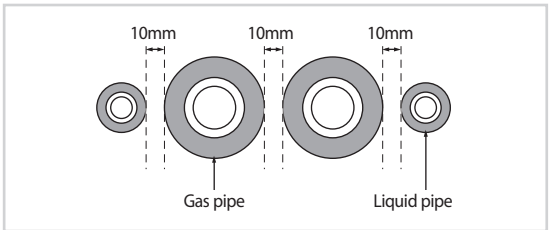
Refrigerant pipe before EEV kit and MCU or without EEV kit and MCU

- You can contact the gas side and liquid side pipes but the pipes should not be pressed.
- When contacting the gas side and gas side pipe, use 1 grade thicker insulation.



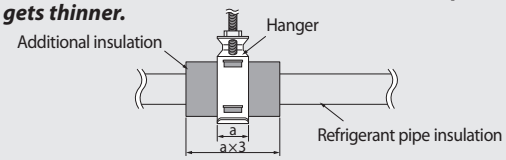
Refrigerant pipe after EEV kit and MCU

- Install the gas side and liquid side pipes, leave 10mm of space. When contacting the gas side and liquid side pipe, use 1 grade thicker insulation.



CAUTION

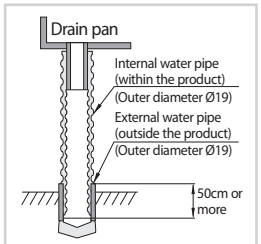
- ***Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.***
- ***Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.***
- ***Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.***
- ***Add the additional insulation if the insulation plate gets thinner.***



Drain pipe and Drain hose Installation

1. Install a drain pipe according to following instruction.

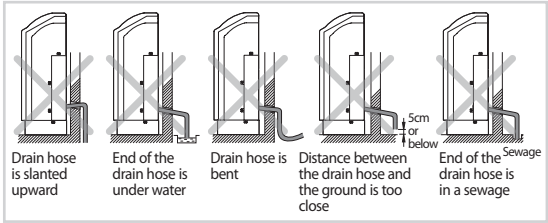
2. When you complete the drain hose installation, pour water to make sure water is drained properly.



CAUTION

- ***Make sure to keep the drain hose from getting tangled or loosed (on the connection part).***
- ***If it is necessary, connect a extension hose (drain hose) to drain hose for indoor unit and insulate the external surface of the extension hose if it is connected in indoor.***
- ***If you installed a drain pipe underneath the refrigerant pipe, make sure to fix the drain hose firmly.***
- ***If you install the drain hose by drilling a hole on a wall, make sure that slope is downward.***

3. When passing the drain hose through the hole drilled in the wall, make sure to avoid following cases.


Drain hose is slanted upward
End of the drain hose is under water
Drain hose is bent
Distance between the drain hose and the ground is too close
5cm or below
End of the drain hose is in a sewage
Sewage

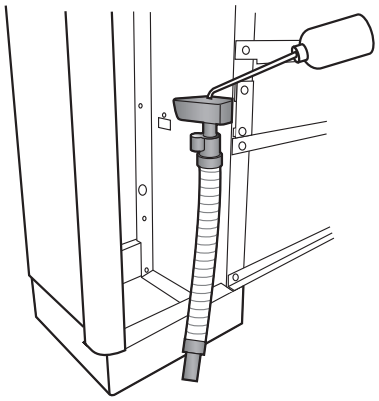
CAUTION

- ***Since the draining is of natural drain type, install the drain hose in downward direction.***
- ***If you do not tie the drain hose with a cable tie, leakage may occur.***
- ***Drain pipe may get clogged if there is any foreign substances within the drain pan, so you must remove any foreign substances after completing the installation.***
- ***Do not use the drain hose (extension hoses) that is connected by number of hoses together.***
  - Water may leak from the connection part, therefore install the drain hose in one piece. However, if the length is too short and you cannot avoid connecting number of drain hoses together, make sure to use silicone sealant or other material for water-proofing measures. (Do not use insulating tape.)

ENGLISH

Water leakage test

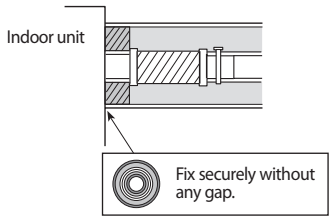
1. Pour water to the hole for the drain test or drain pan of the indoor unit as shown in the figure. (About 1ℓ)
2. Make sure that draining is done properly by checking end of the drain pipe.
3. If water leakage occurs, check the horizontality of the indoor unit, connection part of the drain hose/drain pipe and take measure to stop the leakage.



CAUTION

- ***After connecting the drain pipe to the indoor unit, you must perform leakage test. If the drain test has not done properly, water may get into the indoor and cause property damage.***
- ***Empty the condensation water in the drain pan before any repair/maintenance service.***

Pipe insulation



CAUTION

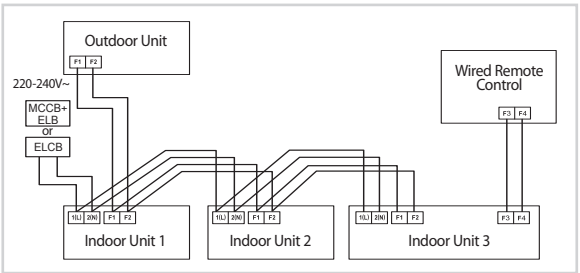
- ***You must insulate refrigerant pipes, branch joints, distribution header and the pipe connection part.***
- ***Make sure to prevent any gap between the insulation on the bent part of the pipes.***
- ***Make sure that insulation is overlapped when fixing it.***

Wiring Work

Power and communication cable connection

■ *AM✳✳✳FNFDEH✳ Series*

1. Before wiring work, you must turn off all power source.
2. Indoor unit power should be supplied through the breaker (ELCB or MCCB+ELB) separated by the outdoor power.
   ELCB: Earth Leakage Circuit Breaker
   MCCB: Molded Case Circuit Breaker
   ELB: Earth Leakage Breaker
3. The power cable should be used only copper wires.
4. Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.
5. Connect F3, F4(for communication) when installing the wired remote control.



※ ELCB : Essential Installation
※ WARNING : Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

■ *AM✳✳✳FBFDEH✳ Series*

1. Before wiring work, you must turn off all power source.
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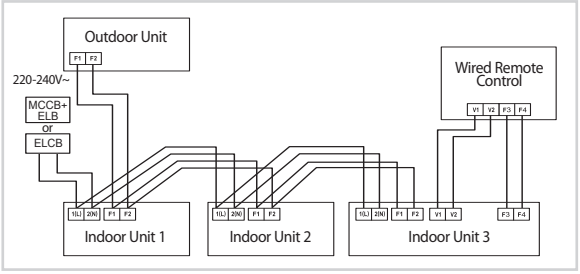
   MCCB: Molded Case Circuit Breaker
   ELB: Earth Leakage Breaker
3. The power cable should be used only copper wires.
4. Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.
5. Connect V1, V2 (for DC12V) and F3, F4(for communication) when installing the wired remote control.



※ ELCB : Essential Installation
※ WARNING : Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

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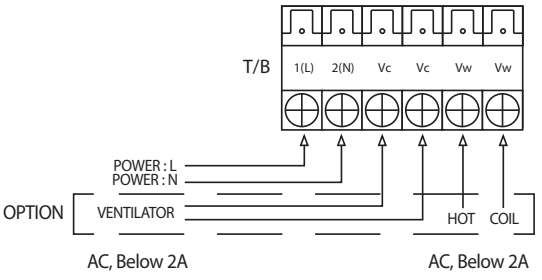
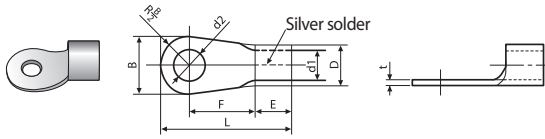
Connecting power for optional product

◆ When installing optional product, make sure to follow below current capacity.

※ Optional product is not supplied by manufacturer.



Selecting compressed ring terminal



Nominal dimensions for cable (mm^2)	Nominal dimensions for screw (mm)	B	
		Standard dimension (mm)	Allowance (mm)
1.5	4	6.6	± 0.2
	4	8	
2.5	4	6.6	± 0.2
	4	8.5	
4	4	9.5	± 0.2

D		d1	
Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)
3.4	+0.3 -0.2	1.7	± 0.2
4.2	+0.3 -0.2	2.3	± 0.2
5.6	+0.3 -0.2	3.4	± 0.2

E	F	L	d2		t
Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
4.1	6	16	4.3	+ 0.2 0	0.7
6	6	17.5	4.3	+ 0.2 0	0.8
6	5	20	4.3	+ 0.2 0	0.9

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242V Min : 198V	XA	XA, 30mmA 0.1 s	2.5mm^2	2.5mm^2	0.75~1.5mm^2

※ Run transmission wiring between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.

※ Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)

◆ Decide the capacity of ELCB(or MCCB+ELB) by below formula.

The capacity of ELCB(or MCCB+ELB) X[A] = 1.25 X 1.1 X ∑Ai

※ X : The capacity of ELCB(or MCCB+ELB).

※ ∑Ai : Sum of Rating currents of each indoor unit.

※ Refer to each installation manual about the rating current of indoor unit.

◆ Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^{n} \left(\frac{Coef \times 35.6 \times Lk \times ik}{1000 \times Ak} \right) < \text{10\% of input voltage[V]}$$

※ coef: 1.55

※ T Lk: Distance among each indoor unit[m]
Ak: Power cable specification[mm^2]
ik: Running current of each unit[A]

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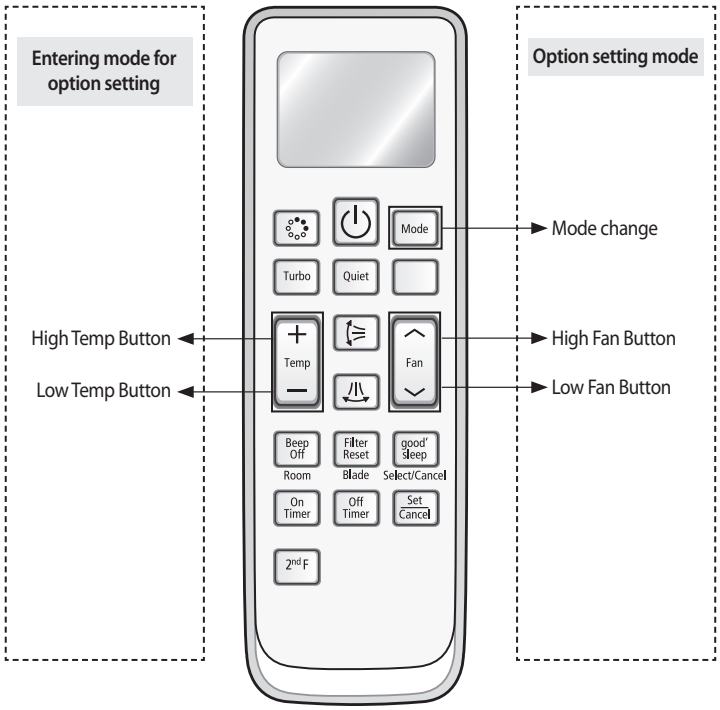
Setting an indoor unit address and installation option

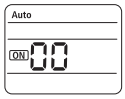
■ *AM✳✳✳FNFDEH✳ Series*

Set the indoor unit address and installation option with remote controller option.
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

The procedure of option setting



Step 1. Entering mode to set option

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.
3.  Check if you have entered the option setting status.

Step 2. The procedure of option setting

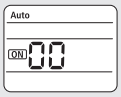
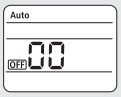
After entering the option setting status, select the option as listed below.

CAUTION

Option setting is available from SEG1 to SEG 24

- ***SEG1, SEG7, SEG13, SEG19 are not set as page option.***
- ***Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.***

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

On(SEG1~12)	Off(SEG13~24)
	

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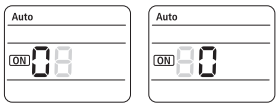
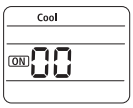
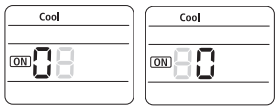
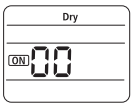
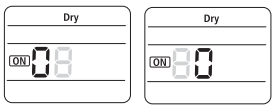
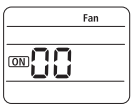
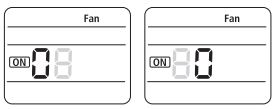
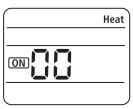
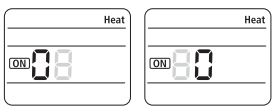
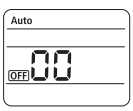
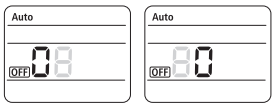
Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(∨) to enter SEG2 value. Press High Fan button(∧) to enter SEG3 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG2 SEG3
2. Setting Cool mode Mode Press Mode button to be changed to Cool mode in the ON status.	
3. Setting SEG4, SEG5 option Press Low Fan button(∨) to enter SEG4 value. Press High Fan button(∧) to enter SEG5 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG4 SEG5
4. Setting Dry mode Mode Press Mode button to be changed to DRY mode in the ON status.	
5. Setting SEG6, SEG8 option Press Low Fan button(∨) to enter SEG6 value. Press High Fan button(∧) to enter SEG8 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG6 SEG8
6. Setting Fan mode Mode Press Mode button to be changed to FAN mode in the ON status.	
7. Setting SEG9, SEG10 option Press Low Fan button(∨) to enter SEG9 value. Press High Fan button(∧) to enter SEG10 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG9 SEG10
8. Setting Heat mode Mode Press Mode button to be changed to HEAT mode in the ON status.	
9. Setting SEG11, SEG12 option Press Low Fan button(∨) to enter SEG11 value. Press High Fan button(∧) to enter SEG12 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG11 SEG12
10. Setting Auto mode Mode Press Mode button to be changed to AUTO mode in the OFF status.	
11. Setting SEG14, SEG15 option Press Low Fan button(∨) to enter SEG14 value. Press High Fan button(∧) to enter SEG15 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG14 SEG15

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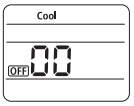
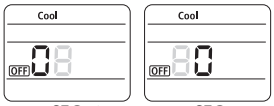
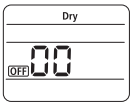
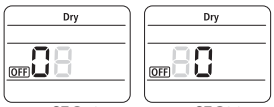
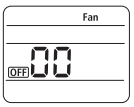
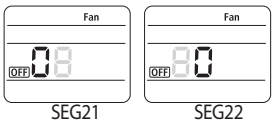
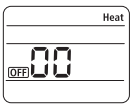
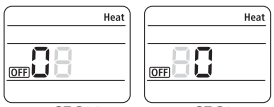
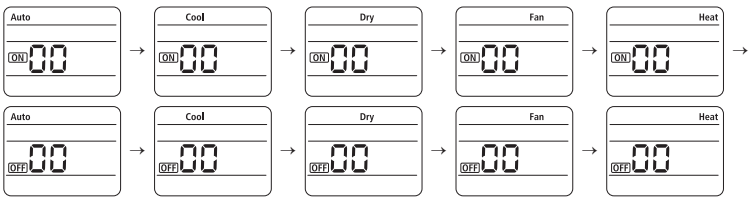
Setting an indoor unit address and installation option(Continued)

Option setting	Status
12. Setting Cool mode Mode Press Mode button to be change to Cool mode in the OFF status.	
13. Setting SEG16, SEG17 option Press Low Fan button(∨) to enter SEG16 value. Press High Fan button(∧) to enter SEG17 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG16 SEG17
14. Setting Dry mode Mode Press Mode button to be change to Dry mode in the OFF status.	
15. Setting SEG18, SEG20 option Press Low Fan button(∨) to enter SEG18 value. Press High Fan button(∧) to enter SEG20 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG18 SEG20
16. Setting Fan mode Mode Press Mode button to be change to Fan mode in the OFF status.	
17. Setting SEG21, SEG22 option Press Low Fan button(∨) to enter SEG21 value. Press High Fan button(∧) to enter SEG22 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG21 SEG22
18. Setting Heat mode Mode Press Mode button to be change to HEAT mode in the OFF status.	
19. Setting SEG23, SEG24 mode Press Low Fan button(∨) to enter SEG23 value. Press High Fan button(∧) to enter SEG24 value. Each time you press the button, 0→1→ ··· E→F will be selected in rotation.	 SEG23 SEG24

Step 3. Check the option you have set

After setting option, press Mode button to check whether the option code you input is correct or not.



Step 4. Input option

Press operation button with the direction of remote control for set.
For the correct option setting, you must input the option twice.

Step 5. Check operation

1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
2. Take the batteries out of the remote controller and insert them again and then press the operation button.

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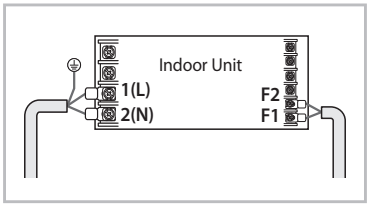
Setting an indoor unit address (MAIN/RMC)



1. Check whether power is supplied or not.
   - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
   - The initial setting status of indoor unit ADDRESS(MAIN/RMC) is "0A0000-100000-200000-300000".

Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display			Auto ON A		Auto ON 8		Cool ON 8		Cool ON 8		Dry ON 8	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit
					1	Main address setting mode						

Option	SEG7		SEG8	SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE			Setting RMC address			Group channel(*16)		Group address	
Remote Controller Display				Fan ON 8			Heat ON 8		Heat ON 8	
Indication and Details	Indication	Details	-	Indication	Details	-	Indication	Details	Indication	Details
	1			0	No RMC address		RMC1	0~F	RMC2	0~F
				1	RMC address setting mode					

CAUTION

- ***When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.***
- ***If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG5~6.***
- ***If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.***
- ***You cannot set SEG11 and SEG12 as F value at the same time.***

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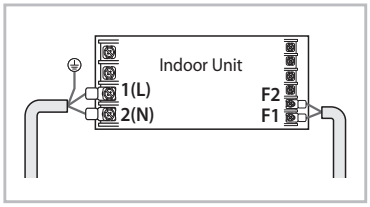
Setting an indoor unit address and installation option(Continued)

Setting an indoor unit installation option (suitable for the condition of each installation location)

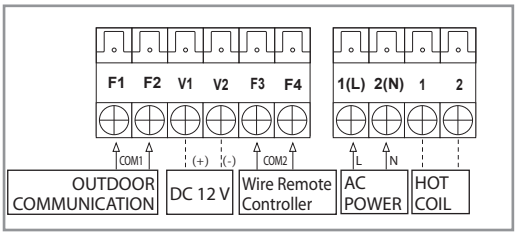


1. Check whether power is supplied or not.
   - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Set the installation option according to the installation condition of an air conditioner.
   - The default setting of an indoor unit installation option is "020010-100000- 200000-300000".
   - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
4. Set the indoor unit option by wireless remote controller.

■ *02 series installation option*

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	External room temperature sensor / Minimizing fan operation when thermostat is off	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	-	EEV Step when heating stops	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output / External heater On or Off signal	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation / Removing condensated water in heating mode	EEV Step of stopped unit during oil return/defrost mode	Motion detect sensor	-

- 1WAY/2WAY/4WAY MODEL : Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- 1 WAY/2WAY/4WAY,DUCT MODEL : Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to except for 2 or 6.
- When setting the option other than above SEG values, the option will be set as "0".
- SEG5 central control option is basically set as 1 (Use), so you don't need to set the central control option additionally. However, if the central control is not connected but it doesn't indicate an error message, you need to set the central control option as 0 (Disuse) to exclude the indoor unit from the central control.
- The output of hot water heater in SEG9 is generated from the hot coil part of the terminal board in duct models.



* The output of hot coil terminal is AC 220 V / 230 V (The same as Indoor Unit's input Power)

- The external output of SEG15 is generated by MIM-B14 connection. (Refer to the manual of MIM-B14.)

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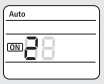
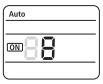
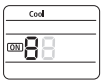
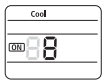
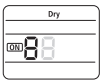
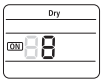
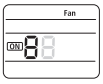
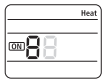
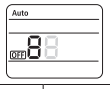
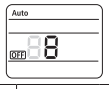
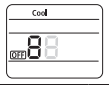
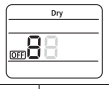
■ *02 series installation option(Detailed)*

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4			SEG5		SEG6	
Explanation	PAGE		MODE		Use of robot cleaning		Use of external room temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		FAN RPM compensation	
Remote Controller Display													
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details: Use of External room temperature sensor	Details: Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details
	0		2		0	Disuse	0	Disuse	Disuse	0	Disuse	0	Disuse
					1	Use	1	Use	Disuse	1	Use	1	RPM compensation
							2	Disuse	Use (*1)			2	High ceiling KIT
							3	Use	Use (*1)				

Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		Use of drain pump		Use of hot water heater				EEV Step when heating stops			
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1		0	Disuse	0	Disuse			0	Default value		
			1	Use	1	Use (*2)			1	Noise decreasing setting		
			2	When an indoor unit stops, drain pump will operate for 3min.	2	-						
					3	Use (*2)						

Option	SEG13		SEG14		SEG15			SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control		Setting the output of external control/External heater On/Off signal			S-Plasma ion		Buzzer control		Number of hours using filter	
Remote Controller Display													
Indication and Details	Indication	Details	Indication	Details	Indication	Details: Setting the output of external control	Details: External heater On/Off signal	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	Thermo on	-	0	Disuse	0	Use buzzer	2	1000 Hour
			1	ON/OFF control	1	Operation on	-	1	Use	1	Disuse buzzer	6	2000 Hour
			2	OFF control	2	-	Use (*3)						
			3	Window ON/OFF control	3	-	Use (*3)						

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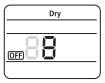
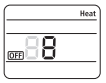
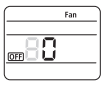
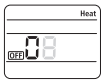
Setting an indoor unit address and installation option(Continued)

<table>
<tr><td>Option</td><td colspan="2">SEG19</td><td colspan="2">SEG20</td><td colspan="3">SEG21</td><td colspan="2">SEG22</td><td colspan="2">SEG23</td><td>SEG24</td></tr>
<tr><td>Explanation</td><td colspan="2">PAGE</td><td colspan="2">Individual control of a remote controller</td><td colspan="3">Heating setting compensation / Removing condensated water in heating mode</td><td colspan="2">EEV Step of stopped unit during oil return / defrost mode</td><td colspan="2">Motion detect sensor</td><td>-</td></tr>
<tr><td>Remote Controller Display</td><td colspan="2"></td><td colspan="2">  </td><td colspan="3">  </td><td colspan="2">  </td><td colspan="2">  </td><td></td></tr>
<tr><td rowspan="11">Indication and Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td colspan="2">Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td></td></tr>
<tr><td colspan="2"></td><td colspan="2"></td><td></td><td>Heating Setting Compensation</td><td>Removing Condensated Water in Heating Mode</td><td colspan="2"></td><td colspan="2"></td><td></td></tr>
<tr><td colspan="2" rowspan="10">3</td><td rowspan="2">0 or 1</td><td rowspan="2">channel 1</td><td>0</td><td>Default (*4)</td><td>Disuse</td><td rowspan="2">0</td><td rowspan="2">Default value</td><td>0</td><td>Disuse</td><td></td></tr>
<tr><td>1</td><td>2 ℃</td><td>Disuse</td><td>1</td><td>Turn out in 30min. without motion</td><td></td></tr>
<tr><td>2</td><td>channel 2</td><td>2</td><td>5 ℃</td><td>Disuse</td><td rowspan="8">1</td><td rowspan="8">Oil return or Noise decreasing in defrost mode</td><td>2</td><td>Turn out in 60min. without motion</td><td></td></tr>
<tr><td>3</td><td>channel 3</td><td>3</td><td>Default (*4)</td><td>Use (*5)</td><td>3</td><td>Turn out in 120min. without motion</td><td></td></tr>
<tr><td rowspan="3">4</td><td rowspan="3">channel 4</td><td>4</td><td>2 ℃</td><td>Use (*5)</td><td>4</td><td>Turn out in 180min. without motion</td><td></td></tr>
<tr><td rowspan="2">5</td><td rowspan="2">5 ℃</td><td rowspan="2">Use (*5)</td><td>5</td><td>Turn out in 30min. without motion or *advanced function</td><td></td></tr>
<tr><td>6</td><td>Turn out in 60min. without motion or *advanced function</td><td></td></tr>
<tr><td>7</td><td>Turn out in 120min. without motion or *advanced function</td><td></td></tr>
<tr><td>8</td><td>Turn out in 180min. without motion or *advanced function</td><td></td></tr>
</table>

* Advanced function: Controlling cooling/heating current or power saving with motion detect.

(*1) Minimizing fan operation when thermostat is off
- Fan operates for 20 seconds at an interval of 5 minutes in heat mode.

(*2) 1: Fan is turned on continually when the hot water heater is turned on,
3: Fan is turned off when the hot water heater is turned on with cooling only indoor unit
Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.

(*3) When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.
2: Fan is turned on continually when the external heater is turned on,
3: Fan is turned off when the external heater is turned on with cooling only indoor unit
Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.

※ If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote controller sensor to detect indoor temperature exactly.

(*4) Default setting value
- 4Way Cassette, Mini 4Way Cassette: 5 °C
- Other indoor units: 2 °C

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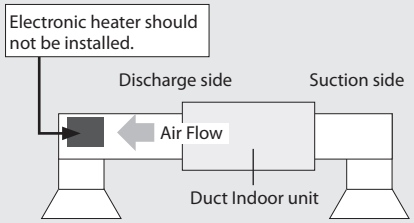
(*5) This function can be applied to 4 Way Cassette and Mini 4 Way Cassette only. If the air conditioner operates the heating mode immediately after finishing the cooling mode, the condensated water in the drain pan becomes water vapor by the heat of the indoor unit heat exchanger. Since the water vapor might be condensed on the indoor unit, which may fall into a living space, use this function to get rid of the water vapor out of the indoor unit by operating the fan (for maximum 20 minutes) even when the indoor unit is turned off after cooling mode is turned to heating mode .

CAUTION

◆ ***Do not install the electronic heater in the flow channel of the indoor unit fan.***



■ *05 series installation option*

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	5	Use of Auto Change Over for HR only in Auto mode	(When setting SEG3) Standard heating temp. Offset	(When setting SEG3) Standard cooling temp. Offset	(When setting SEG3) Standard for mode change Heating → Cooling
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	(When setting SEG3) Standard for mode change Cooling → Heating	(When setting SEG3) Time required for mode change	Compensation option for Long pipe or height difference between indoor units	-	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	-	-	-	-	Control variables when using hot water / external heater
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	-	-	-	-	-

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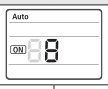
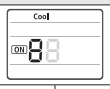
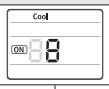
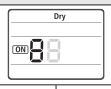
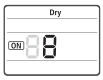
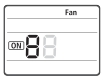
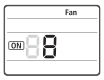
Setting an indoor unit address and installation option(Continued)

■ *05 series installation option(Detailed)*

Option No. : 05XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Use of Auto Change Over for HR only in Auto mode		(When setting SEG3) Standard heating temp. Offset		(When setting SEG3) Standard cooling temp. Offset		(When setting SEG3) Standard for mode change Heating→Cooling	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		5		0	Follow product option	0	0 ℃	0	0 ℃	0	1 ℃
					1	Use Auto Change Over for HR only	1	0.5 ℃	1	0.5 ℃	1	1.5 ℃
							2	1 ℃	2	1 ℃	2	2 ℃
							3	1.5 ℃	3	1.5 ℃	3	2.5 ℃
							4	2 ℃	4	2 ℃	4	3 ℃
							5	2.5 ℃	5	2.5 ℃	5	3.5 ℃
							6	3 ℃	6	3 ℃	6	4 ℃
							7	3.5 ℃	7	3.5 ℃	7	4.5 ℃

Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		(When setting SEG3) Standard for mode change Cooling→Heating		(When setting SEG3) Time required for mode change		Compensation option for Long pipe or height diffference between indoor units					
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details				
	1		0	1 ℃	0	5 min.	0	Use default value				
			1	1.5 ℃	1	7 min.	1	1) Height difference[1] is more than 30m or 2) Distance[2] is longer than 110m				
			2	2 ℃	2	9 min.						
			3	2.5 ℃	3	11 min.						
			4	3 ℃	4	13 min.	2	1) Height difference[1] is 15~30m or 2) Distance[2] is 50~110m				
			5	3.5 ℃	5	15 min.						
			6	4 ℃	6	20 min.						
			7	4.5 ℃	7	30 min.						

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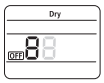
Option	SEG13	SEG14	SEG15	SEG16	SEG17	SEG18 [3]		
Explanation						Control variables when using hot water / external heater		
Remote Controller Display								
Indication and Details						Indication	Details	
							Set temp. for heater On/Off	Delay time for heater On
	2					0	At the same time as thermo on	No delay
						1	At the same time as thermo on	10 minutes
						2	At the same time as thermo on	20 minutes
						3	1.5 °C	No delay
						4	1.5 °C	10 minutes
						5	1.5 °C	20 minutes
						6	3.0 °C	No delay
						7	3.0 °C	10 minutes
						8	3.0 °C	20 minutes
						9	4.5 °C	No delay
						A	4.5 °C	10 minutes
						B	4.5 °C	20 minutes
						C	6.0 °C	No delay
						D	6.0 °C	10 minutes
						E	6.0 °C	20 minutes

[1] Height difference : The difference of the height between the corresponding indoor uint and the indoor unit installed at the lowest place. For example, When the indoor unit is installed 40m higher than the indoor unit installed at the lowest place, select the option "1".

[2] Distance : The difference between the pipe length of the indoor unit istalled at farthest place from an outdoor unit and the pipe length of the corresponding indoor unit from an outdoor unit.
For example, when the farthest pipe length is 100 m and the corresponding indoor unit is 40 m away from an outdoor unit, select the option "2". (100 - 40 = 60 m)

[3] Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater

e.g. 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 = "0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.

e.g. 2) Setting 02 series SEG15 ="2" / Setting 05 series SEG18 ="A":

Room temp. ≤ set temp. + f(heating compensation temp.)

- External heater is turned on when the temperature is maintained as 4.5 °C for 10 minutes.

Room temp. > set temp. + f(heating compensation temp.)

- External heater is turned off when the temperature is maintained as 4.5 °C + 1 °C (1 °C is the Hysteresis for On/Off selection.]

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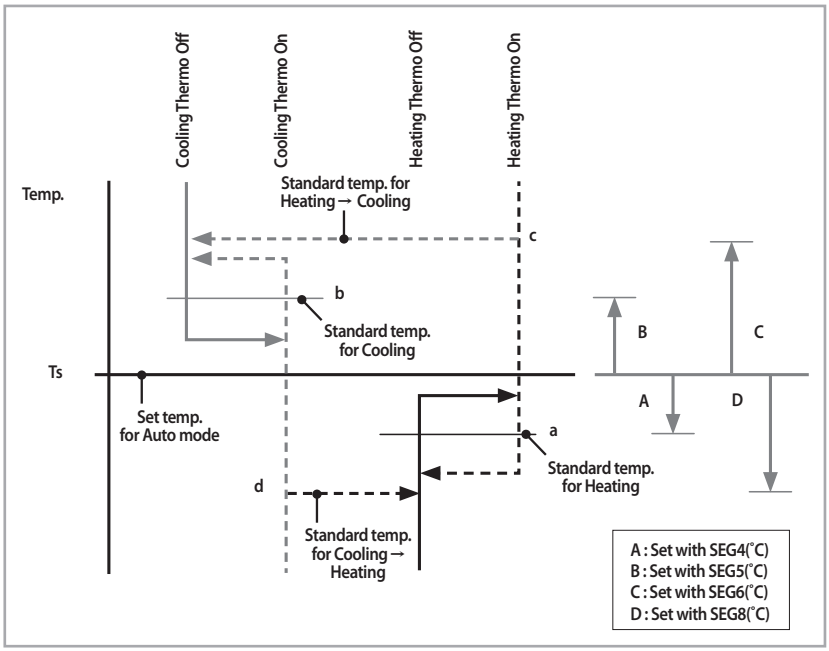
Setting an indoor unit address and installation option(Continued)

SEG 3, 4, 5, 6, 8, 9 additional information

When the SEG 3 is set as "1" and follow Auto Change Over for HR only operation, it will operate as follows.



Cooling/Heating mode can be changed when Thermo Off status is maintained during the time with SEG9.

Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		The changed value	
Remote Controller Display			Auto ON		Auto ON		Cool ON		Cool ON		Dry ON	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	1~6	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

Note

- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'.

Ex) When setting the 'buzzer control' into disuse status.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

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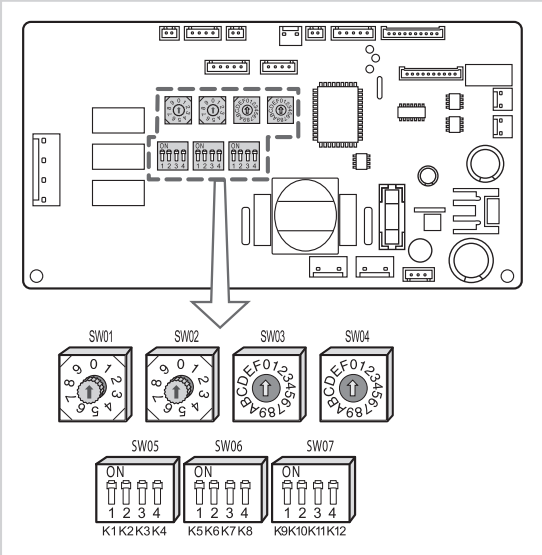
■ *AM✳✳✳FBFDEH✳ Series*

1. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
2. The address of the indoor unit is assigned by adjusting MAIN(SW01, SW02) and RMC(SW03, SW04) rotary switches.



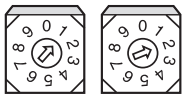
※ The designs and shape are subject to change according to the model.

Setting Main Address

- The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.
- You can set the MAIN address from '00' to '99' by mixing SW01 and SW02. The MAIN address from '00' to '99' should differ from each other.
- Check the indoor unit address on the plan that you are to install and set the address according to the plan.

Note You may not need to set main address if you selected Auto Address Setting from the outdoor unit: see details on the outdoor unit installation manual.

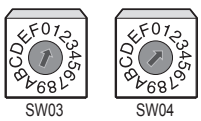
For Example **When MAIN address is set as "12".**



Setting RMC Address

- The SW03 and SW04 RMC switch is the address setting switch for controlling the indoor unit with the centralized controller.
- You must set the SW03, SW04 and K2 switch when using the centralized controller.
- You don't have to set the SW03 and SW04 RMC switch when not using the centralized controller.

For Example **When RMS address is set as "12".**



Setting the function switch

■ *AM✳✳✳FBFDEH✳ Series*

Switch No.		Function	ON	OFF
SW05	K1	-	-	-
	K2	Centralized control	Do not use	Use
	K3	RPM compensation	-	-
	K4	Drain pump	-	-
SW06	K5	Revised room temperature in heat mode	-	-
	K6	Filter clean indicator	1000 hours	2000 hours
	K7	Hot water coil	-	-
	K8	Electric heater	-	-
SW07	K9	Minimum opening of stopped EEV during heating	Fixed 80 step	0 or 80 step
	K10	Displaying status of wireless remote controller	Do not use	Use
	K11	External control	Do not use	Use
	K12	-	-	-

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